

### STEM



#### What is STEM?

- A focused effort to create a sustained and competitive capability in the areas of Science, Technology, Engineering and Math
- In the US this is a national effort that engages across all of society, especially minorities and underrepresented groups.

### Why is STEM important?

- To compete in a global market place of ideas, products, influence, establishing a strong national capability in the areas of STEM is critical
- To provide a path for leadership in many areas and all levels both at home and internationally

### **STEM and Space**



Having a presence in space is beneficial to industry, government, and the nation

Space is a difficult area in which to work

- Requires time, capability, visionary leadership and persistence
- Requires collaboration internally and externally
- Requires funding sources to understand the value of being in space
- For a public effort, such as ours is, requires support of the general population for a sustained effort

A strong STEM focus establishes a foundation for all of these requirements. Without STEM, getting to space is a transient effort at best.

# What does STEM for Space look like?



#### Education

- Early and secondary education requires working through the school system
- University requires commitment from institutions to create programs that focus on areas of space expertise
  - Encourage engineering projects that are space related
  - Hire faculty with space engineering expertise
  - Create exchange opportunities with established programs
- Industry encourage continuing education in space related areas associated with their products
- Be engaged in education opportunities
  - Visit schools, universities
  - Volunteer to teach courses

## What does STEM for Space look like?



#### **Public Outreach**

- Media print, television, arts/entertainment
  - Educate the media on the value and excitement of working in space
  - Establish relationships with media members
  - Encourage programing for children and teenagers that focus on STEM areas
  - Make yourself available to the media
- Decision Makers Political, Captains of Industry, the same thing
  - Educate
  - Relate
  - Encourage
  - Available